

**LAPORAN PRAKTIKUM 5**  
**PEMOGRAMAN BERORIENTASI OBYEK**



**Disusun Oleh :**

**Ahmad Donny Damanik**  
**21091397008**

**PROGRAM STUDI D4 MANAJEMEN INFORMATIKA**

**PROGRAM VOKASI**

**UNIVERSITAS NEGERI SURABAYA**

**2022**

Suatu program terdiri dari class Pegawai sebagai parent class, class Manajer dan class Kurir sebagai subclass. Buatlah suatu program yang menerapkan konsep polymorphic argument (Polymorphic arguments adalah tipe suatu parameter yang menerima suatu nilai yang bertipe subclass-nya)

◆

The screenshot displays a dual-pane IDE environment. The left pane shows a PHP file named 'NotPrak5.php' with the following code:

```

1 <!-- Nama : AHMAD DONNY DAMANIK -->
2 <!-- NPM : 21091397008 -->
3 <!-- kelas : 2023 B -->
4 <DOCTYPE html>
5 <html lang="id">
6 <head>
7 <meta charset="UTF-8">
8 <meta http-equiv="X-UA-Compatible" content="IE=edge">
9 <meta name="viewport" content="width=device-width, initial-scale=1">
10 <title>Praktikum 5</title>
11 </head>
12 <body style="align-items: center;">
13 <div class="container">
14 <h2>Soal Nomor 1</h2>
15
16 <php
17 class Pegawai
18 {
19     public $nama;
20     public function __construct($nama)
21     {
22         $this->nama = $nama;
23     }
24     public function getNama()
25     {
26         return $this->nama;
27     }
28 }
29
30 class Manager extends Pegawai
31 {
32     public $tunjangan;
33     public function __construct($nama, $tunjangan)
34     {
35         parent::__construct($nama);
36         $this->tunjangan = $tunjangan;
37     }
38     public function getTunjangan()
39     {
40         return $this->tunjangan;
41     }
42 }
43
44 class Kurir extends Pegawai
45 {
46     public $gaji;
47     public function __construct($nama, $gaji)
48     {
49         parent::__construct($nama);
50         $this->gaji = $gaji;
51     }
52     public function getGaji()
53     {
54         return $this->gaji;
55     }
56 }
57
58 class Soal1
59 {
60     public static
61     function Proses($peg)
62     {
63         if ($peg instanceof Manager)
64         {
65             $suan = $peg;
66             echo "Nama manager: ".$suan->nama, "\n";
67             echo "Gaji manager: Rp. ".strval($suan->tunjangan), "\n";
68         }
69         else if ($peg instanceof Kurir)
70         {
71             $skun = $peg;
72             echo "Nama kurir: ".$skun->nama, "\n";
73             echo "Gaji: Rp. ".strval($skun->gaji), "\n";
74         }
75     }
76     public static
77     function main($args)
78     {
79         echo "Ahmad Donny Damanik - 21091397008", "\n";
80         echo "<br>", "<br>";
81         $peg1 = new Manager("Donny", 650000);
82         Soal1::Proses($peg1);
83         echo "<br>", "<br>";
84         $peg2 = new Kurir("Samsudin", 300000);
85         Soal1::Proses($peg2);
86     }
87 }
88
89 Soal1::main(array());
90 >
91 </div>
92 </body>
93 </html>

```

The right pane shows an HTML file named 'NotPrak5.php' with the following code:

```

1 <!-- Nama : AHMAD DONNY DAMANIK -->
2 <!-- NPM : 21091397008 -->
3 <!-- kelas : 2023 B -->
4 <DOCTYPE html>
5 <html lang="id">
6 <head>
7 <meta charset="UTF-8">
8 <meta http-equiv="X-UA-Compatible" content="IE=edge">
9 <meta name="viewport" content="width=device-width, initial-scale=1">
10 <title>Praktikum 5</title>
11 </head>
12 <body style="align-items: center;">
13 <div class="container">
14 <h2>Soal Nomor 1</h2>
15
16 <php
17 class Pegawai
18 {
19     public $nama;
20     public function __construct($nama)
21     {
22         $this->nama = $nama;
23     }
24     public function getNama()
25     {
26         return $this->nama;
27     }
28 }
29
30 class Manager extends Pegawai
31 {
32     public $tunjangan;
33     public function __construct($nama, $tunjangan)
34     {
35         parent::__construct($nama);
36         $this->tunjangan = $tunjangan;
37     }
38     public function getTunjangan()
39     {
40         return $this->tunjangan;
41     }
42 }
43
44 class Kurir extends Pegawai
45 {
46     public $gaji;
47     public function __construct($nama, $gaji)
48     {
49         parent::__construct($nama);
50         $this->gaji = $gaji;
51     }
52     public function getGaji()
53     {
54         return $this->gaji;
55     }
56 }
57
58 class Soal1
59 {
60     public static
61     function Proses($peg)
62     {
63         if ($peg instanceof Manager)
64         {
65             $suan = $peg;
66             echo "Nama manager: ".$suan->nama, "\n";
67             echo "Gaji manager: Rp. ".strval($suan->tunjangan), "\n";
68         }
69         else if ($peg instanceof Kurir)
70         {
71             $skun = $peg;
72             echo "Nama kurir: ".$skun->nama, "\n";
73             echo "Gaji: Rp. ".strval($skun->gaji), "\n";
74         }
75     }
76     public static
77     function main($args)
78     {
79         echo "Ahmad Donny Damanik - 21091397008", "\n";
80         echo "<br>", "<br>";
81         $peg1 = new Manager("Donny", 650000);
82         Soal1::Proses($peg1);
83         echo "<br>", "<br>";
84         $peg2 = new Kurir("Samsudin", 300000);
85         Soal1::Proses($peg2);
86     }
87 }
88
89 Soal1::main(array());
90 >
91 </div>
92 </body>
93 </html>

```

The bottom status bar indicates the file is in UTF-8 encoding.

◆

Browser tabs: (114) WhatsApp, Pemrograman Berorientasi Objek, donnydamanik/PBO-Prak5, Praktikum 5

Address bar: localhost/No1%20Prak5.php

## Soal Nomor 1

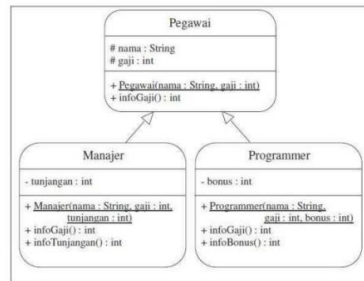
Ahmad Donny Damanik - 21091397008

Nama manajer: Donny  
Tunjangan: Rp. 650000

Nama kurir: samsudin  
Gaji: Rp. 300000

**2.**

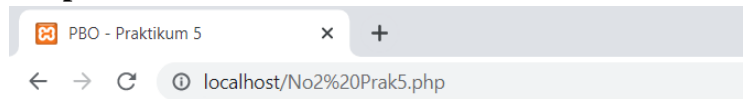
Buatlah program berdasarkan UML berikut



## ◆ Source Code

[illegible]

### ◆ Output



## Soal Nomor 2

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Gaji Manajer nama: Donny = Rp. 9700000

Gaji Programmer nama: samsudin = Rp. 5000000